Dictionary of FII Data Elements Included in IDEA

1.0 FII Data Elements Included in IDEA

The Integrated Data for Enforcement Analysis (IDEA) system incorporates data from 17 databases. IDEA makes copies of the source database files and incorporates the data into its own "shadow files." Among the databases that IDEA draws from is the Facility Identification Initiative (FII).

1.1 DESCRIPTION OF FII

The Facility Identification Initiative (FII) provides easier access to environmental data submitted by regulated facilities by promoting linkage among EPA's major data sources. It establishes a national standard for information regarding facilities subject to federal environmental reporting and permitting requirements, and other facilities of interest to the states. This registry of facility location and identification information allows users to build integrated queries for environmental data. It allows tracking of environmental actions captured in program media data systems. In addition, FII enables states to integrate State and National environmental data for regulated facilities.

FII provides a unique facility identification number (FACUIN) for each federally regulated facility that is then linked to identifying information from the program databases. The FACUIN supports integrated search and retrieval of environmental data about a facility across program office systems by establishing linkages with program office system identifiers including: location data (i.e., latitude, longitude, and associated metadata) and historical records that enable tracking environmental activities by facility and responsible organizations.

Name and address information for a given facility can vary considerably from one program system to another, so IDEA looks at the name and address data from the various program systems linked to a facility, and takes a vote on each field to determine what is the most common version. These "voted" data fields are called: VNAME, VADDR, VCITY, VSTATE, VZIP, VCNTYCD (county code), VREGION, VLATD, and VLONG. All voted data fields may be used in queries for output reporting, and most for input selection.

1.2 FII DATA ELEMENTS

The table below lists the FII elements that appear in IDEA by their database group. If you wish to view FII data elements arranged alphabetically, please refer to Attachment 1, *FII Data Elements (by data element name)*. The following points should be considered when referencing these data element listings:

- A data element must be indexed to be used in an IDEA query. Refer to the 'Index?' column of the table to see whether or not a data element is indexed.

- In order to access sensitive data elements, users must have Enforcement Sensitive access. Refer to the 'Sensitive?' column of the table to see whether or not the data element is enforcement sensitive.

- Italicized data elements indicate single and multiple indexing elements. These elements are created in IDEA to make it easier for the user to search on a portion of a data field, or to search on more than one data field at a time.

- Data elements in the same group are all either repeating fields or not. Refer to the 'Repeat Record' column of the table to see whether or not the data element is a repeating field. In repeating groups, the data element(s) that uniquely determine the record, the "keyed" elements, are denoted by a 'K' in parentheses.

FII Data Elements (by group)						
Repeat Record?	Element Name	Index?	Sensitive?	Data Type	Length	Long Name
FACILITY IDENTIFICATION						
N	FACUIN	Y	N	Char	12	Facility ID Number
NAMES						
N	VNAME	N	N	Char	50	Voted Name
	VHASHES	N	N	Char	100	Voted Hash Name
	VHSHMEL	*Y*	*N*	*Char*	*4*	*Voted Hash Name Index*
	VADDR	N	N	Char	50	Voted Address
	VCITY	N	N	Char	30	Voted City
	VSTATE	N	N	Char	2	Voted State Postal Abbreviation
	VZIP	N	N	Num	5	Voted Postal Zip Code
	VREGION	N	N	Char	2	Voted Region
	VCNTYCD	N	N	Num	3	Voted County Code
	VSTCNTY	*Y*	*N*	*Char*	*4*	*Voted State/County Code*
	VLATD	N	N	Num	5	Voted Latitude (in degrees)
	VLONG	N	N	Num	5	Voted Longitude (in degrees)
	VLNGLAT	*Y*	*N*	*Num*	*8*	*Voted Longitude/Longitude*

2.0 FII Data Element Definitions

The following is a description of the fields that reside in the IDEA version of FII. The only field that is native to FII is the Facility Identification Number (FACUIN). The remaining "voted" fields are determined by IDEA and placed in the FII file for identification purposes.

FACUIN (Facility Identification Number) The twelve-character, non-intelligent, unique identification number (UIN) assigned to a facility or a complex facility. The Office of Information Resources Management (OIRM) central Facility Identification System generates and assigns the Facility Identification Number (FACUIN). Facilities that were already in FINDS retained their IDs when IDEA switched from FINDS to FII. However, new facilities entered into FII will receive the new non-intelligent identifier (i.e., they will not contain a state code or any other facility information).

VADDR (Voted Address) The voted address of the facility.

VCITY (Voted City) The voted city where the facility resides.

VCNTYCD (Voted County Code) The voted county code where the facility resides.

VLATD (Voted Latitude) The voted latitude (in degrees) of the facility.

VHASHES (Voted Hash Name) A field that contains the hash name of voted facility name (VNAME). The hash name includes the first letter of each word in the facility name and the next three consonants thereafter. The hash name excludes vowels unless they are the first letter in a name. If the word contains consecutive double consonants (e.g., bottle), only one is included in the hash name (e.g., btl). Each word of the plant name occupies four characters of the VHASHES field; spaces are inserted for those words whose hash name is not four characters long. The VHASHES field may contain hashes for up to 25 words in a facility name.

VHSHMEL (Voted Hash Name Index) A single element index that allows the user to search the VHASHES field for any word in the facility name regardless of its position in the VHASHES field.

VLNGLAT (Voted Longitude/Latitude) A multiple element index that combines the Voted Longitude (VLONG) coordinates and the Voted Latitude (VLAT) coordinates into a single field. The first four digits of VLNGLAT display the longitude coordinates and the last four digits of VLNGLAT display the latitude coordinates.

VLONG (Voted Longitude) The voted longitude (in degrees) of the facility.

VNAME (Voted Name) The voted name of the facility.

VREGION (Voted Region) The voted two-digit EPA region code that indicates where the facility resides.

VSTATE (Voted State) The voted two-character state postal code that indicates the state where the facility resides.

VSTCNTY (Voted State/County Code) A multiple element index that combines the Voted State (VSTATE) and Voted County Code (VCNTYCD) into a single field. The first two characters of VSTCNTY display the state abbreviation and the last two characters of VSTCNTY display the county code.

VZIP (Voted Zip Code) The voted postal zip code of the facility.

Attachment 1

FII Data Elements
(by data element name)

The following table displays the data elements in FII according to data element name.

Element Name	Group	Index?	Sensitive?	Data Type	Length	Long Name
FACUIN	FACID	Y	N	Char	12	Facility ID Number
VADDR	NAMES	N	N	Char	50	Voted Address
VCITY	NAMES	N	N	Char	30	Voted City
VCNTYCD	NAMES	N	N	Num	3	Voted County Code
VHASHES	NAMES	N	N	Char	100	Voted Hash Name
VHSHMEL	*NAMES*	*Y*	*N*	*Char*	*4*	*Voted Hash Name Index*
VLATD	NAMES	N	N	Num	5	Voted Latitude (in degrees)
VLNGLAT	*NAMES*	*Y*	*N*	*Num*	*8*	*Voted Longitude/Longitude*
VLONG	NAMES	N	N	Num	5	Voted Longitude (in degrees)
VNAME	NAMES	N	N	Char	50	Voted Name
VREGION	NAMES	N	N	Char	2	Voted Region
VSTATE	NAMES	N	N	Char	2	Voted State Postal Abbreviation
VSTCNTY	*NAMES*	*Y*	*N*	*Char*	*4*	*Voted State/County Code*
VZIP	NAMES	N	N	Num	5	Voted Postal Zip Code

FII Data Elements (by data element name)

Attachment 1 FII Data Elements (by data element name)